

PATENT **SPECIFICATION**

1424692 (11)

(21) Application No. 12363/73 (22) Filed 14 March 1973

(31) Convention Application No. 7209159

(32) Filed 16 March 1972 (31) Convention Application No. 7236531 (32) Filed 16 Oct. 1972 in

(33) France (FR)

(44) Complete Specification published 11 Feb. 1976

(51) INT CL² D21H 5/22 A47K 10/16 A61K 7/00 9/00 A61L 13/00//(A61K 7/00 7/32 7/34)

(52) Index at acceptance

D2B 10 36A 36JX 36L 36M3 36MY 36T 41A 6

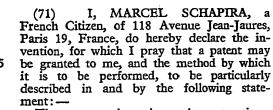
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The present invention relates to tissue papers of a hygienic nature for body use (hereinafter called "tissue" for the sake of convenience) and, more particularly, but not exclusively toilet papers and toilet tissues.

Known tissues of this kind have been con-15 ceived only for permitting efficient wiping, and all improvements hitherto proposed have been directed towards the qualities of the tissue in keeping with this objective, that is to say towards fineness, ability to be crumpled or bunched up without forming sharp folds, resistance to tearing, and softness to the touch. Several qualities of tissue have been proposed, the best known being a relative smooth very thin paper and crepe paper, 25 which latter gains in softness what it loses in strength, this deficiency being additionally considerably accentuated by moisture.

Scenting of tissues can be cited as the sole attempt at improvement not directly bound 30 up with use. Moreover, despite all the care taken in the production of the tissue and in the various processes necessary for its conditioning, a high degree of asepsis cannot be guaranteed, and deterioration occurs in the time which elapses between manufacture and use. On this account, the comfort or emollient effect arising from use of soft toilet tissues is quite often illusory, more especially when account is taken of conditions of modern life which, for many people involves sitting, for long periods, on chairs or seats (such as

plastics vehicle seats) of non-ventilated material and the result of which is that moisture and perspiration not absorbed by the clothing (often made of synthetic textiles) encourage overheating, sweating and irritation in the rectal region as well as development of certain micro-organisms such as yeasts and fungoid growths. Impregnated tissues are used, for example to freshen-up the face or for removing make-up, but these have the disadvantage of being moist and, therefore, of necessitating special tight and individual conditioning for each sheet, which is absolutely incompatible with a toilet tissue for both economic and practical reasons.

An object of the present invention is to provide a dry tissue by which these disadvan-tages or difficulties can be avoided, which incorporates a carrier which provides improved wiping qualities of the tissue and which further incorporates at least two active substances which for example guarantee a high degree of asepsis, or contribute to improving comfort by reducing perspiration and by protecting against inflammation and irritation.

With this object in view, the present invention provides a dry tissue paper of a hygienic nature for body use characterised in that it incorporates at least two active substances (as herein defined) in a solid carrier having a melting point which is lower than human body temperature.

The active substances may have similar or different properties.

The carrier and active substances may be introduced either by incorporating them into the pulp from which the paper is made so that they are present in the entire thickness. of the tissue, or by depositing them on one or both surfaces of the tissue and then drying



	• •			
	the tissue, or by a combination of these two processes.	Example 1:		65 .
	Another possibility consists in sandwiching	2,4,4' - trichloro - 2' -	parts	
_	the carner and active substances between two	hydroxydinhenyl ether (ac		
5	thin sheets which form the tissue and allow	a bactericide and bacterio		
	them to diffuse when the tissue is used for	stat)	0.050	70
	wiping.	azulene (as an antiphlogistic		
	As used herein, the term "active substance"	agent)	0.025	
10	means a substance which is inert relative to	ethylene glycol monolaurate (as carrier)	400.000	
-	the tissue, which does not produce any	, (us carrier)	100.000	
	secondary reaction on the skin and the mucous membranes, and which is one or more of the	Example 2:	•	75
	following, namely an antiseptic, a bactericide		narte	15
	a pacteriostatic agent, an anthelmintic agent	22 - moronio - 22, - QI-	parts	
15	' an antipologistic agent, an antiperspirant of	chloro dihydroxydiphenyl-		
	rungicide, a deodorant, a lighticant, and for	mentane (as a pactericide		
	an emoment epidermic agent.	and imigicide)	0.05	68
	The active substances should, of course, be	menthol (as a skin antiseptic and an emollient epidermic		-
20	meri relative to one another.		0.05	
	Tron-restrictive examples of said active enh-	propylene glycol monomyris-	0.03	
	stances are antiseptic bactericides such as thymol, resorcinol and hydroxyquinoline sul-	tate (as carrier)	100.000	85
	phate, antiperspirant agents such as alumi-	-		
25	muiii chloronydrate, aluminium chloride	Example 3:		
	socium lactate, aluminium lactate alumi-	2,4,4' - trichloro - 2' -	parts	
	mulii Salicylate and Zirconnim hydroxide, and	hydroxydiphenyl ether (as		
	substances having several effects such as	a bactericide and bacterio-		90
	menthol which is both a skin antiseptic and an emollient agent.	stat)	0.050	90
30	The combination of selected ones of these	thymol (as an antiseptic and	0.050	
	substances with cellulose esters e.g. in admir	an anthelmintic agent)	0.030	
	ture, results in a sizing or coating material	azulene (as an antiphlogistic agent)		
	which is not very adherent to the tierre and	polyoxyethylene glycol mono-	0.025	95
35	which, upon use of the tissue, will leave a	stearate (as carrier)	50.000	
	slight deposit in the wiped region thereby generating a prolonged sensation of well-	propylene glycol monomyris-	20.000	
	oung.	tate (also as carrier)	50.000	
	The hygienic tissue of the invention can	In all those amount of		
40	oc in the lumi of toller names but he assess	In all these examples, the mixture	can be	100
		incorporated into the tissue by ad the pulp from which the paper is m	ding to	
	Portion microfil such figures mark he a 1:	"PPIJMS UIC HIXIUTE AS A SINGLE II	anid	
	cinal paper, a pharmaceutical paper or a paper for various particular and specific applications	are substances as successive travials	4	
4 ~	Calibra.	or both surfaces of the fissue and th	proof-	105
45	Relative hereto, it is to be mentioned that	drying the ussue, or by sandwiching +	hai	
		ture between two thin paper sheets together form the tissue.	which	
	wow to substance or active cubeteness to	The active substances are associate	ad rulet	
	ing lubricating and emollient properties, the tissue may be of practical use, for instance, in the fields of intimete business.	the some carrier, which ifeely man h		110
50	in the fields of intimate hygiene and cosmetic			110
	Products.	- 10Wer than number from tempera	f	
	Indeed, by incorporating in the tissue, as	TO WALL TORUMY DECIME Transference		
	active substance, a substance which it	skin when the tissue is rubbed the leaving on the skin a film which con	ereover,	
55	Courages drying-up of the girm, the tiones	to counteracting any damage or in	tributes	115
-	be rendered suitable for use in the production of towels for intimate hygiene, for example	when might alise from the wining	UD645-	
	the surface lavers of sanitary towns -1:-	uon.		
•		Naturally the invention is not restri	cted to	
60	with the skin and micous mombras	the love could examined and transaction		120
60	memout minauly mem. If can also he are	be made thereto within the scope following claims.	of the	
	ployed for the production of towels for re- moving make-up.			•
		WHAT I CLAIM IS:-		
	The following examples illustrate compositions for use in the invention;—	1. A dry tissue paper of a hygienic	nature	
		for body use characterised in that it	incor-	125
			_	

porates at least two active substances (as herein defined) in a solid carrier having a melting point lower than human body temperature.

- 2. A tissue paper as claimed in Claim 1 characterised in that one of the active substances is 2,4,4' trichloro 2' hydroxy diphenyl ether.
- 3. A tissue paper as claimed in Claim 1 or 2 characterised in that one of the active 10 substances is azulene.
 - 4. A tissue paper as claimed in any preceding claim characterised in that one of the active substances is thymol.
 - A tissue paper as claimed in any preceding claim characterised in that one of the active substances is aluminium chlorohydrate or aluminium chloride.
- A tissue paper as claimed in any preceding claim characterised in that one of the
 active substances is menthol.

7. A tissue paper as claimed in any preceding claim characterised in that the carrier comprises propylene glycol monomyristate.

8. A tissue paper as claimed in any preceding claim characterised in that the carrier comprises polyoxy ethylene glycol monostearate.

9. A tissue paper as claimed in any of Claims 1 to 6, characterised in that the solid compound comprises ethylene glycol monolaurate.

10. A hygienic tissue according to Claim 1 and substantially as herein described.

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Printed for Her Majesty's Stationery Office, by the Courier Press, Leamington Spa, 1976. Published by The Patent Office, 25 Southampton Buildings, London, WC2A 1AY, from which copies may be obtained. 30